



Homestake Mining Company Superfund Site: Community Update

Community Information Meeting
Grants, New Mexico
November 17, 2016



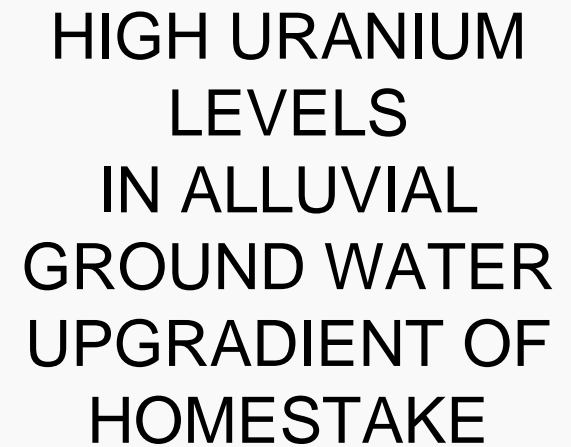
Update Topics


- EPA Groundwater Assessment
- Fourth Five-Year Review





EPA Groundwater Assessment

- Requested by BVDA/MASE
 - Provided EPA with new information
 - Dr. Meyers Report on conceptual flow and transport model
- Verify if approved cleanup levels are appropriate
 - Levels based on background
 - Higher than drinking water standards
- U.S. Geological Survey (USGS) Support
 - Determine source of high background levels



 Site Related
Uranium Impacts



 Upgradient Uranium

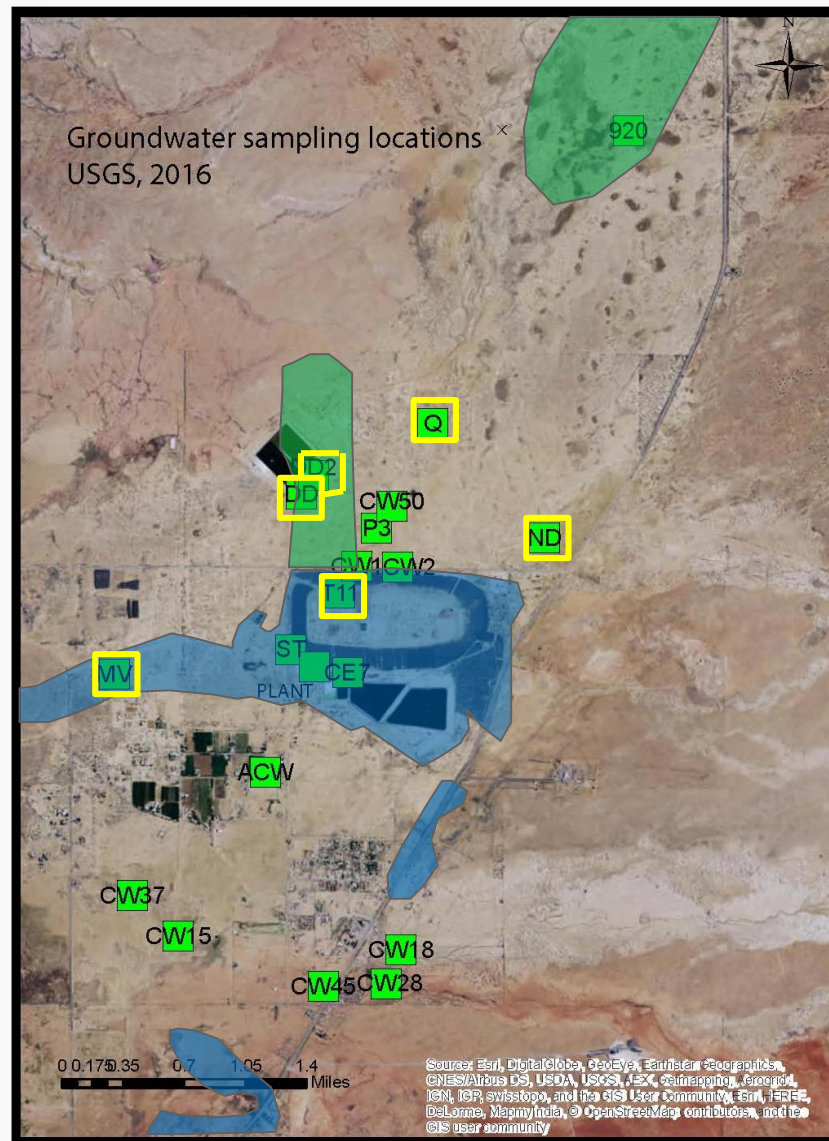


Ground Water
Flow Direction



USGS Geophysical Testing and Ground Water Sampling Locations

-  Ground water sampling only
-  Geophysical testing and ground water sampling





USGS to Determine Source of High Uranium Upgradient of Site

- Is it natural?
- Is it from upgradient mine water discharges?
- Is it from Homestake?



EPA Groundwater Assessment

Geophysical Investigations

- Borehole Geophysical Logs, Including
 - Natural Gamma Log
 - Fluid Resistivity
 - Spectral Gamma Log
 - Flowmeter Log

Geochemical and Isotopic Analysis

- Gross Alpha
- Radium Isotopes
- Uranium, Sulfur, and Nitrogen Isotopes
- Dissolved Gases
- Ground Water Recharge Ages Using Chlorofluorocarbon (CFCs)



GEOPHYSICAL INVESTIGATION

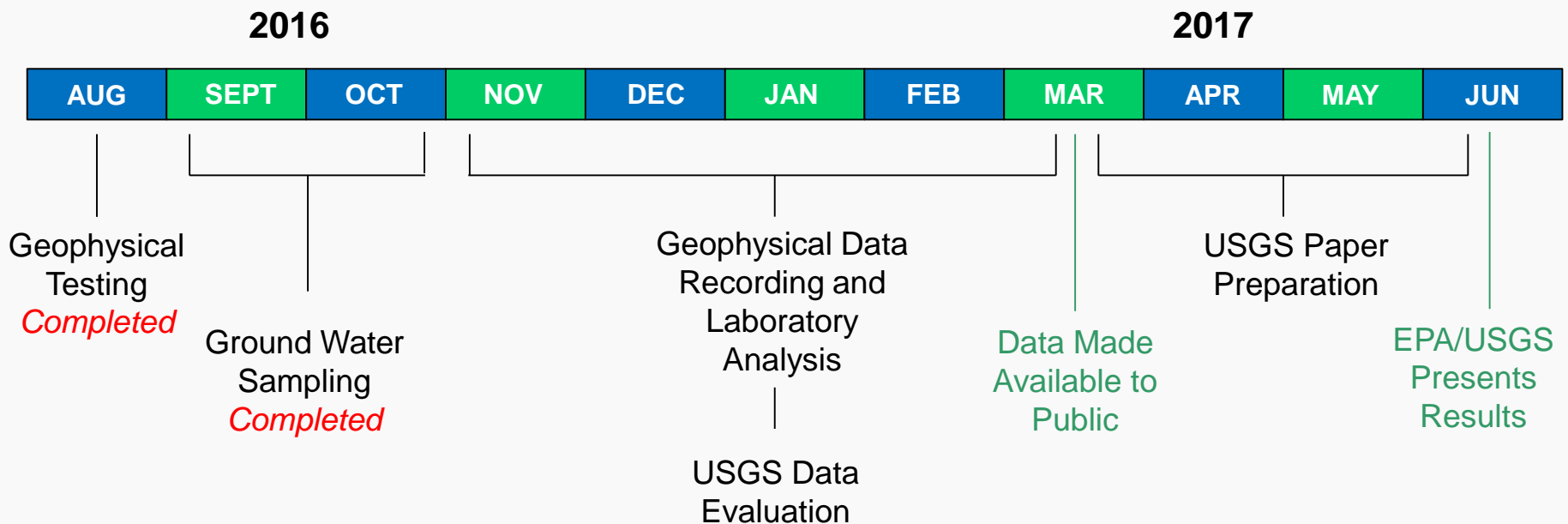


GROUNDWATER SAMPLING





Ground Water Assessment Schedule





Fourth Five-Year Review

- Conducted from Dec 2015 - Sept 2016
- Purpose
 - Determine if cleanup protective
 - Identify any issues
 - Make recommendations to address issues
- Community members interviewed in Jan 2015



Results of Five-Year Review

- Remedy is **currently protective** in short-term
- For long-term protection, additional work needs to be completed
- Fact Sheet provides more information
- Full Report available on EPA webpage for Homestake



Questions